# TA-AX3

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STERO SET CAMPAGE
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City S. C. Service Provincial

AEP Model UK Model E Model

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INTEGRATED STEREO AMPLIFIER JU

#### **SPECIFICATIONS**

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#### GENERAL

System:

Preamplifier section: low-noise NF type equalizer amp.; NF type tone control Power amplifier section: pure-complementary SEPP dc power amplifier with all stages direct coupled

Power Requirements:

AEP model: 220 V ac, 50 Hz/60 Hz UK model: 240 V ac, 50 Hz/60 Hz E model: 110, 120, 220 or 240 V ac adjustable, 50/60 Hz

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### WARNING!!

THIS SET USES THE SWITCHING-TYPE POWER-SUPPLY CIRCUIT, WHICH IS DIRECTLY CONNECTED TO THE AC POWER LINE. AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD.



Power Consumption:

AEP, E model: 75 watts UK model: 250 watts

Dimensions:

Approx. 430(w) x 80(h) x 330(d) mm (17(w) x 3¼(h) x 13(d) inches)

including projecting parts and controls

Weight:

Approx. 4.2 kg (9 lbs 4 oz) net Approx. 5.0 kg (11 lbs) in shipping carton

AMPLIFIER SECTION

to Make

Continuous RMS Power Output:

(Less than 0.008 % THD, both channels driven

simultaneously) At 20 Hz - 20 kHz 40 + 40 watts (8  $\Omega$ ) According to DIN 45500 40 + 40 watts (8  $\Omega$ )

Power Bandwidth

(IHF): 5 Hz - 40 kHz

Dynamic Headroom: 1.0 dB\*

Harmonic Distortion: Less than 0.008 % at rated output

Intermodulation (IM)

Distortion:

(60 Hz: 7 kHz = 4:1)

Less than 0.008 % at rated output

- Continued on page 2 -



Frequency Response: PHONO RIAA equalization curve ±0.2 dB

AUX 5 Hz — 45 kHz +0 dB TAPE 1, 2

Residual Noise:

Less than 140  $\mu$ V (8  $\Omega$ , network A)

50 (8 Ω, 1 kHz) Damping Factor:

Inputs:

	Sensitivity	Im- pedance	Maximum Input Capability (1 kHz)	S/N (Weighting Network, Input Level)
PHONO	2.5 mV	<b>50</b> kΩ	150 mV	82 dB 77 dB* (A, 2.5 mV)
TUNER AUX TAPE 1, 2	150 mV	50 kΩ	Magar yakin ista disebuah sebesah sebe	100 dB 80 dB* (A, 150 mV)

Measured with rated output power into 8  $\Omega$  loads (both channels driven simultaneously) at 1 kHz.

**Outputs:** 

REC OUT 1, 2 Voltage 150 mV

Impedance 4.7 k $\Omega$ .

SPEAKER A, B

Accepts speakers of 4 - 16  $\Omega$ . HEADPHONES

Accepts low and high impedance

headphones.

**Tone Controls:** BASS

±10 dB at 100 Hz (turnover frequency 500 Hz)

TREBLE

±10 dB at 25 kHz (turnover frequency 5 kHz)

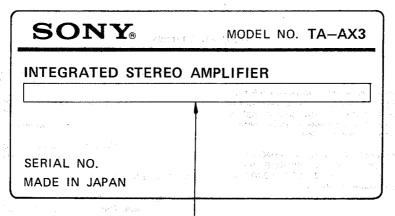
Loudness (att. 30 dB): +10 dB at 100 Hz, +3 dB at 10 kHz

Subsonic Filter: 6 dB/octave attenuation below 15 Hz

0 dB = 0,775 V

#### MODEL IDENTIFICATION

- Specification Label -



AEP model: AC 220V ~ 50/60Hz 75W UK model: AC 240V ~ 50/60Hz 250W

E model: AC 110, 120, 220 or 240V, adjustable ~ 50/60Hz 75W

#### SERVICING NOTE

#### 1. Pulse Power Supply Board Repairing

This set has a pulse power-supply circuit which is quite different from a conventional power-supply circuit. The pulse power-supply directly rectifies and smooths the ac input power to produce the higher dc voltages required in the power-supply circuit. When servicing this set, note the following.

- a) To prevent unwanted radiation due to pulse signals in the pulse power-supply circuit, the pulse power-supply board is shielded by the aluminum diecast box.
- b) Take care that electrolytic capacitor which is used after the rectification of ac power source voltage is charged even if the POWER switch is turned off. Be sure to use a resistor of at least several hundred ohms to discharge the capacitor. Direct discharge by means of lead is dangerous.

#### 2. Inverter Circuit Transistor Replacement

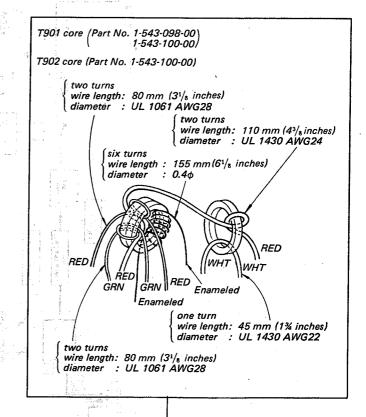
When any of inverter transistors (Q903, Q904) is broken, replace their transistors together. A pair of transistors with the same rank is provided for service field use.

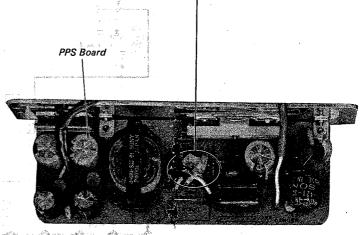
Ref. No.	Part No.	Description
Q903, Q904	X-4869-209-1	Transistor Ass'y, service

#### 3. Inverter Circuit Transformer Replacement

The lead wire arrangement for each of T901 and T902 in the inverter circuit is shown in Fig. A.

As the repair parts, T901 and T902 are formed by only iron core. Thus, if the coil is defective, arrange a new transformers as shown below. Note that the lead lengths must be exact. Also wind the coil carefully.





## **SECTION 1 BLOCK DIAGRAM**

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harmonical Transformer Replacement

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86 mm (35) - 4 fe UL 1881 AWG 28

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wish tength:

80 mm (X) - (active) UL 1051 AHGPE

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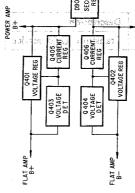
#### 1. Pulse Power Suppl. Board Repairing

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i na<mark>go e</mark>den on eficacionia 34, m. auso e 44, c. Medie<mark>l 16 f</mark>icolatera i consist militari i i centra i inseri 9.11 is a sky begande zi vasale.7 s san of mar off. The come of ib of stedo beroudd ferense (e) Ofrece discharge

#### I Invertes Circuit Pansistor R

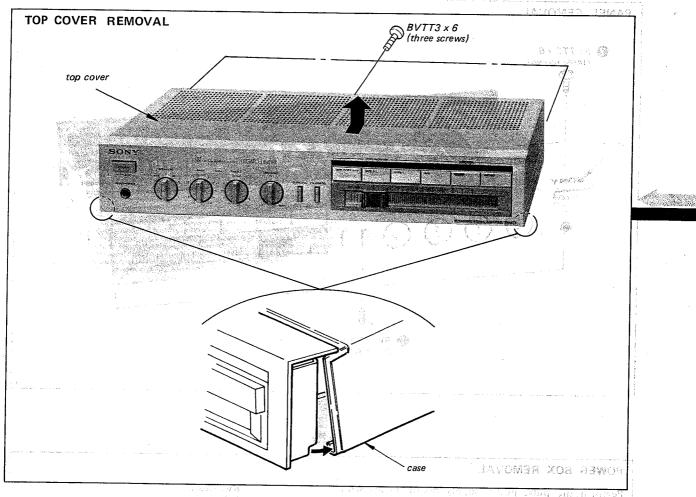
N'aca esy of inverter transfero<mark>colo</mark> of transistant with the same ret certice field aser-유화, No. : Part No. **. LE** UPDS .) YOR : N. 4.865 (1994

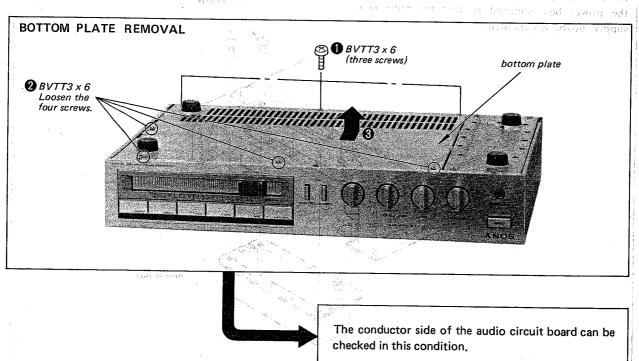


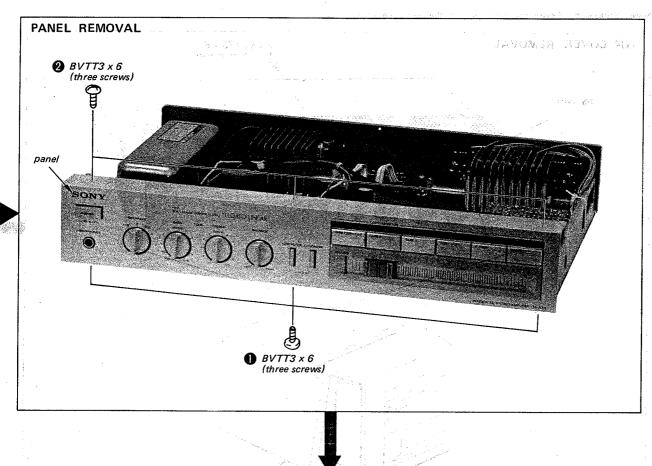
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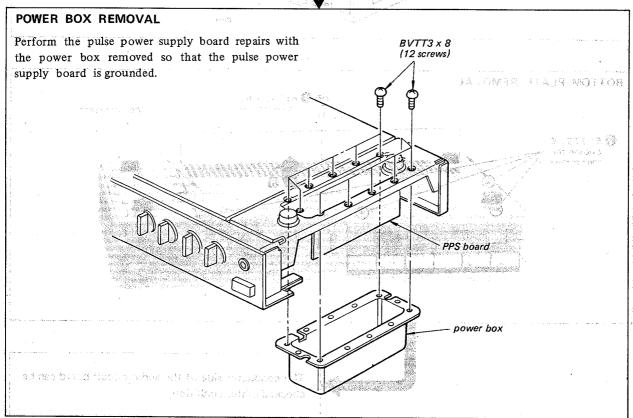
# SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.







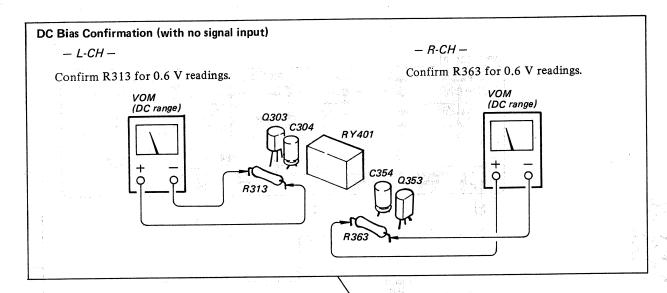


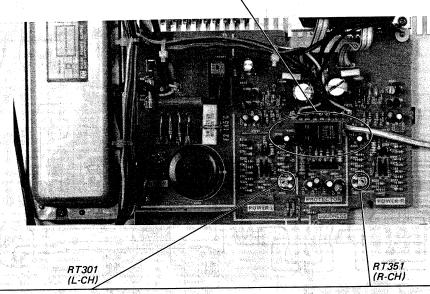
## **SECTION 3 ADJUSTMENTS**

#### Note:

- 1. DC BIAS confirmation and DC BALANCE adjustment should be made several minutes later after the POWER switch is turned on (POWER ON.).
- 2. Make DC BIAS confirmation first.

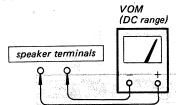
- 3. Repeat DC BIAS confirmation and DC BALANCE adjustment two or three times.
- 4. After replacing the power transistors, DC BIAS confirmation and DC BALANCE adjustment should be made.





## DC Balance Adjustment (with no signal input)

1. Turn the power switch ON. Connect a VOM to speaker terminals.



2. Adjust RT301 (L-CH) and RT351 (R-CH) for 0V reading on the VOM.

/Set the VOM high at first. After obtaining 0 V reading, lower the range gradually and adjust RT301 and RT351.

Specification: 0 V ±50 mV

# 4-1. MOUNTING DIAGRAM — Audio and PPS B - Conductor Side -DIAGRAMS Semiconductor Lead Layouts 1S1555 1T22 1T22AM 2SC2767 2SA798 30DL4FA RD2.4E RD27EB HZ6A3L 2SK246 2SA1015 2SB646 2SC1364 2SC1815 2SD666 **CTU-22U** 2 CX550 2SA1026 SLP255B 2SB731 2SD809 NJM4560D letter side 3 (Top view) 2SC2291 HA12002 Note: Color code of sleeving over the end of the jacket. (Marking side view) STK2230 : B + pattern B - pattern

SECTION 4

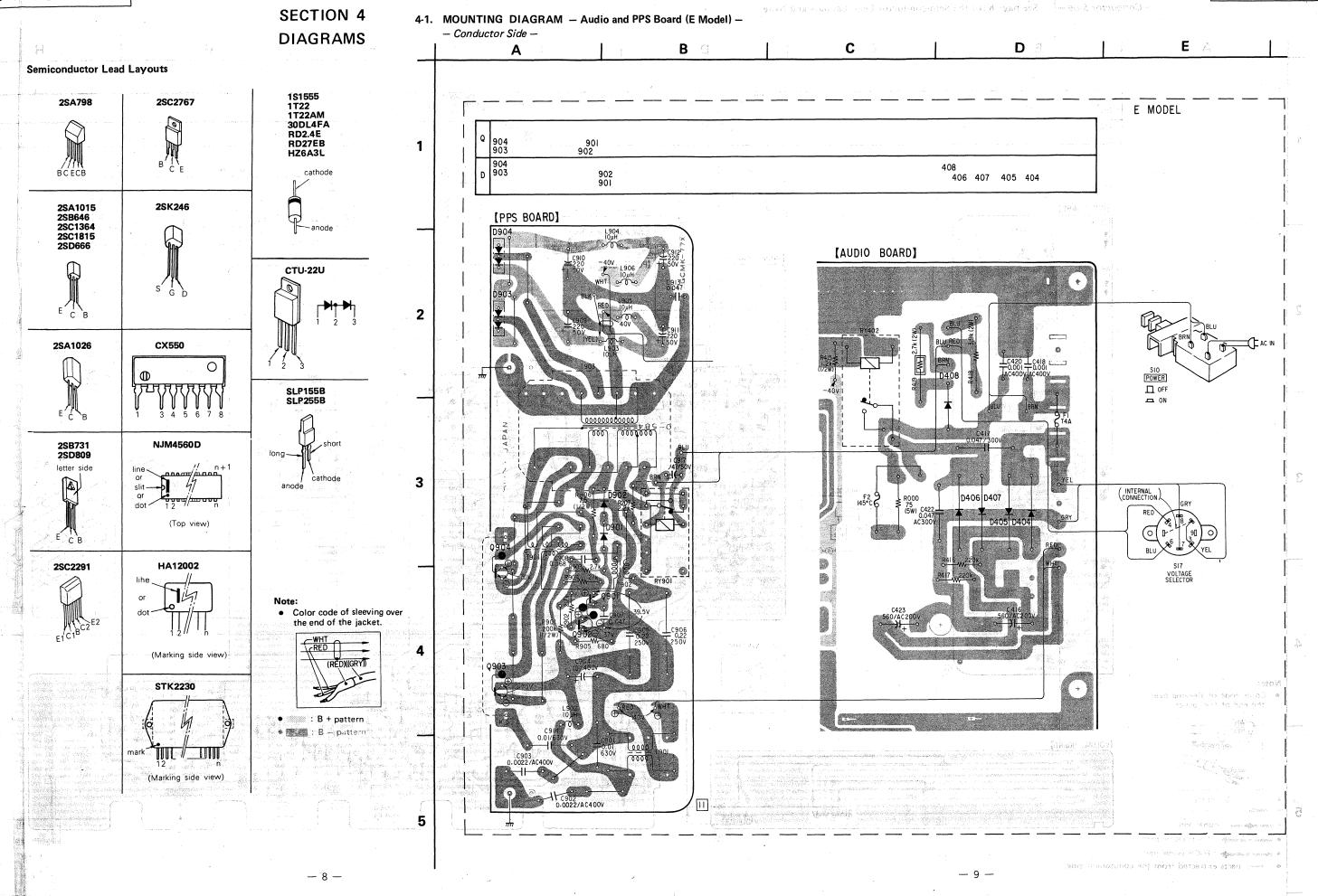
901 902

[PPS BOARD]

5

— <sup>8</sup> —

902 901

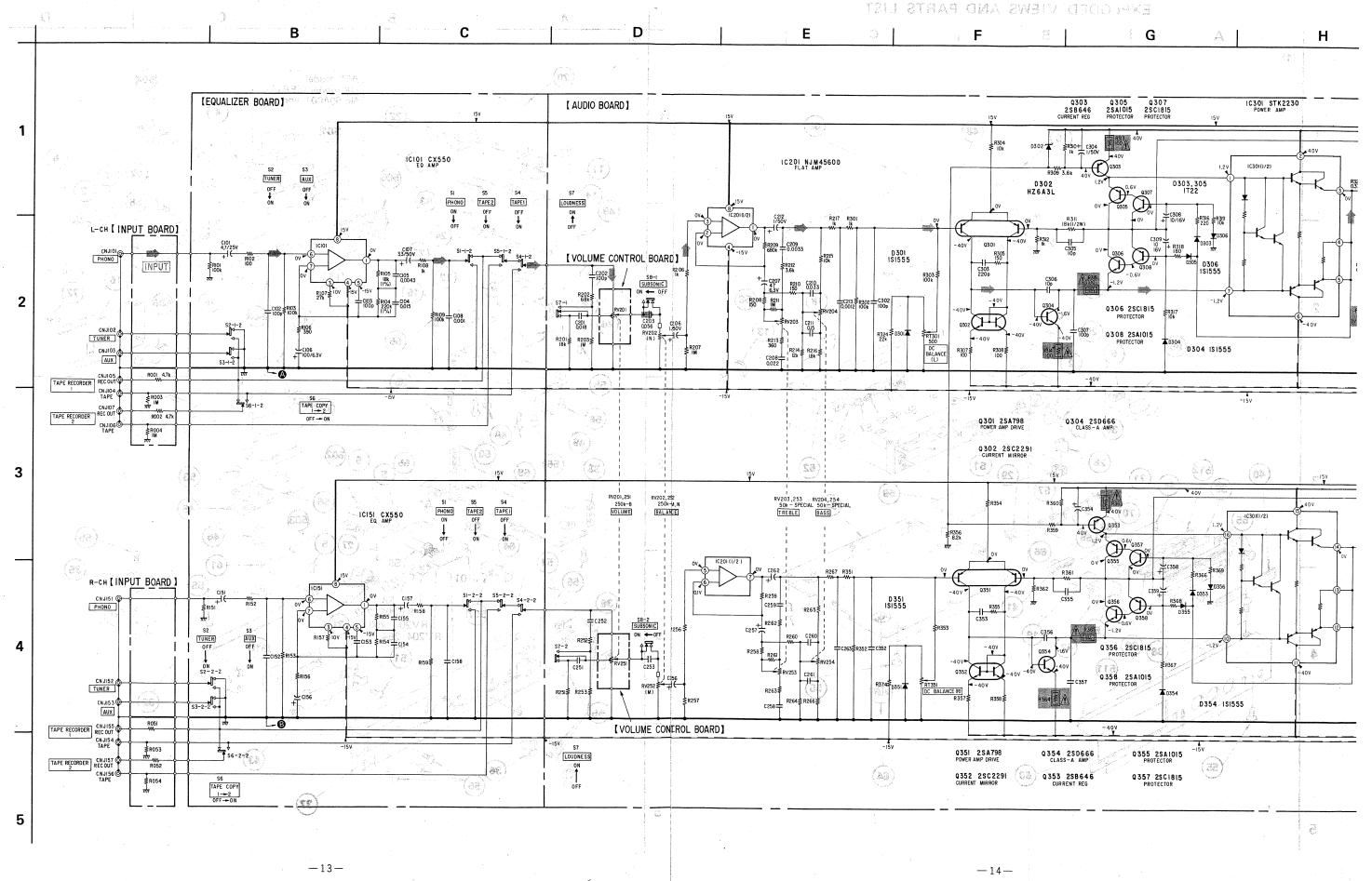


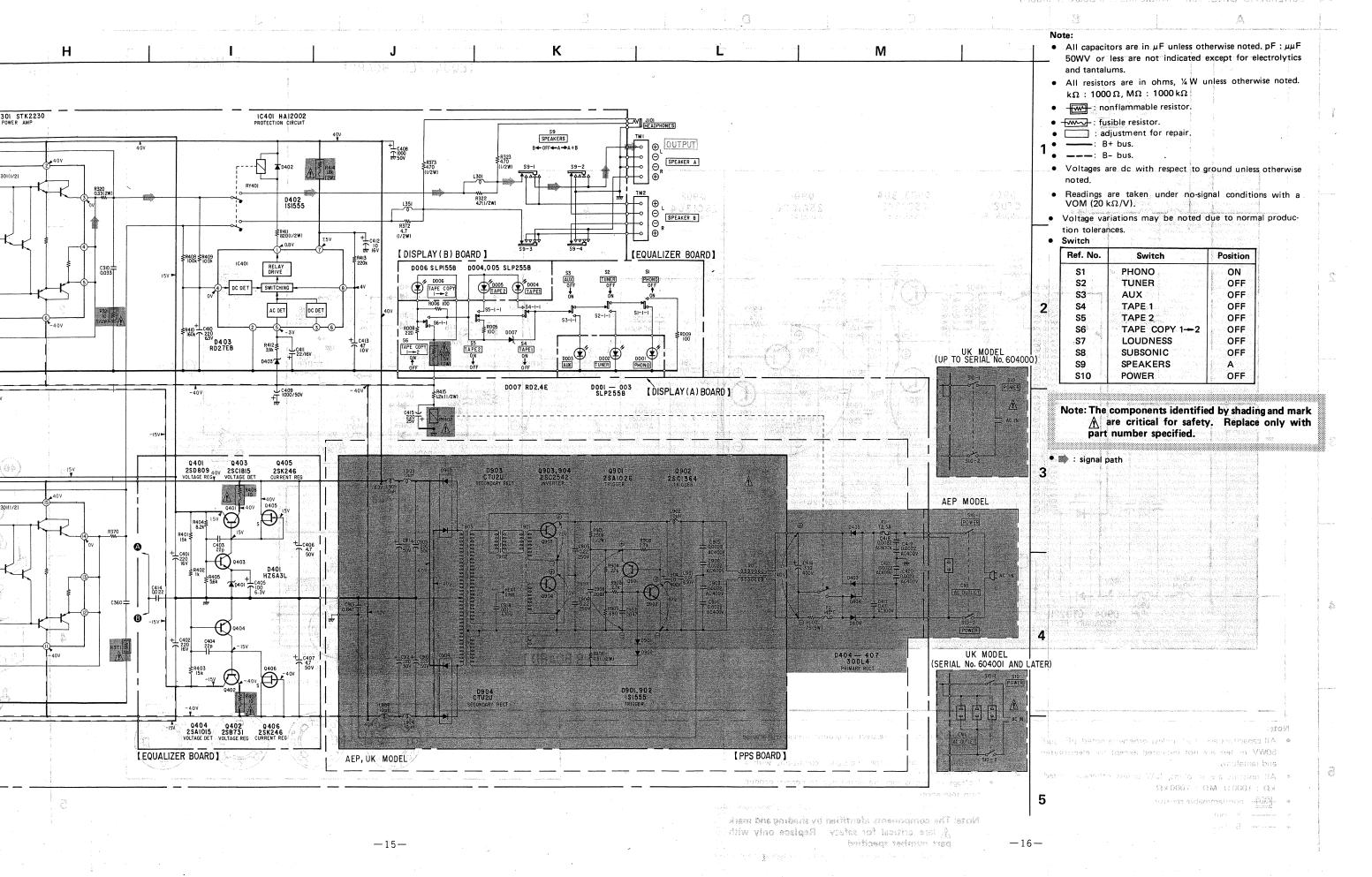
TA-AX3 TA-AX; TA-AX3 4-2. MOUNTING DIAGRAM - Conductor Side - See page 8 for the Semiconductor Lead Layouts and Note. SECTION 4 4.1. MOUNTING DIACRASS - Audio and PPS Board (6 Model) E SMARDAIO В C O A D ∂ E A G 306 · 305 304,308 307 301,302 IC201 901 10401 10201 356 353 355 354 351 403 406 407 405 404 1C301 STK 2230 AEP, UK MODEL [PPS BOARD] AEP, UK MODEL [AUDIO BOARD] [POWER BOARD] UK MODEL UK MODEL (SERIAL No. 604001 AND L/ AEP MODEL POWER

OFF 
ON 
L AEP MODEL 3 RELAY SWITCHING DC DC DC DET [EQUALIZER BOAI IC201 NJM4560D Color code of sleeving over the end of the jacket. [VOLUME BOARD] [DISPLAY (B : R-CH signal path • o-: parts extracted from the component side. -11-

TA-AX3 TA-AX3 SECTION 3 ALCTICAN A AT, MOUNTAIN DIAFRAN - ANGIO and PRINTENTS DIAGRAMS Κ G E 405 403 404 406 306,305 304,308 307 301,302 IC201 28622462 801425 ICIOI ICI51 401 406 407 405 404 IC301 STK 2230 ER BOARD] UK MODEL acin UK MODEL (SERIAL No. 604001 AND LATER) 2 AEP MODEL IC OUTLET ICIOI, ISI CX550 AEP MODEL [EQUALIZER BOARD] e ( 8**PHONO** 1911 151 [DISPLAY(A) BOARD] [DISPLAY (B) BOARD] 5 GCMK-45EX -12--14-

SECTION 5





5

-18-

Voltage variations may be noted due to normal produc-

part number specified.

Note: The components identified by shading and mark

nare critical for safety. Replace only with

tion tolerances.

-17-

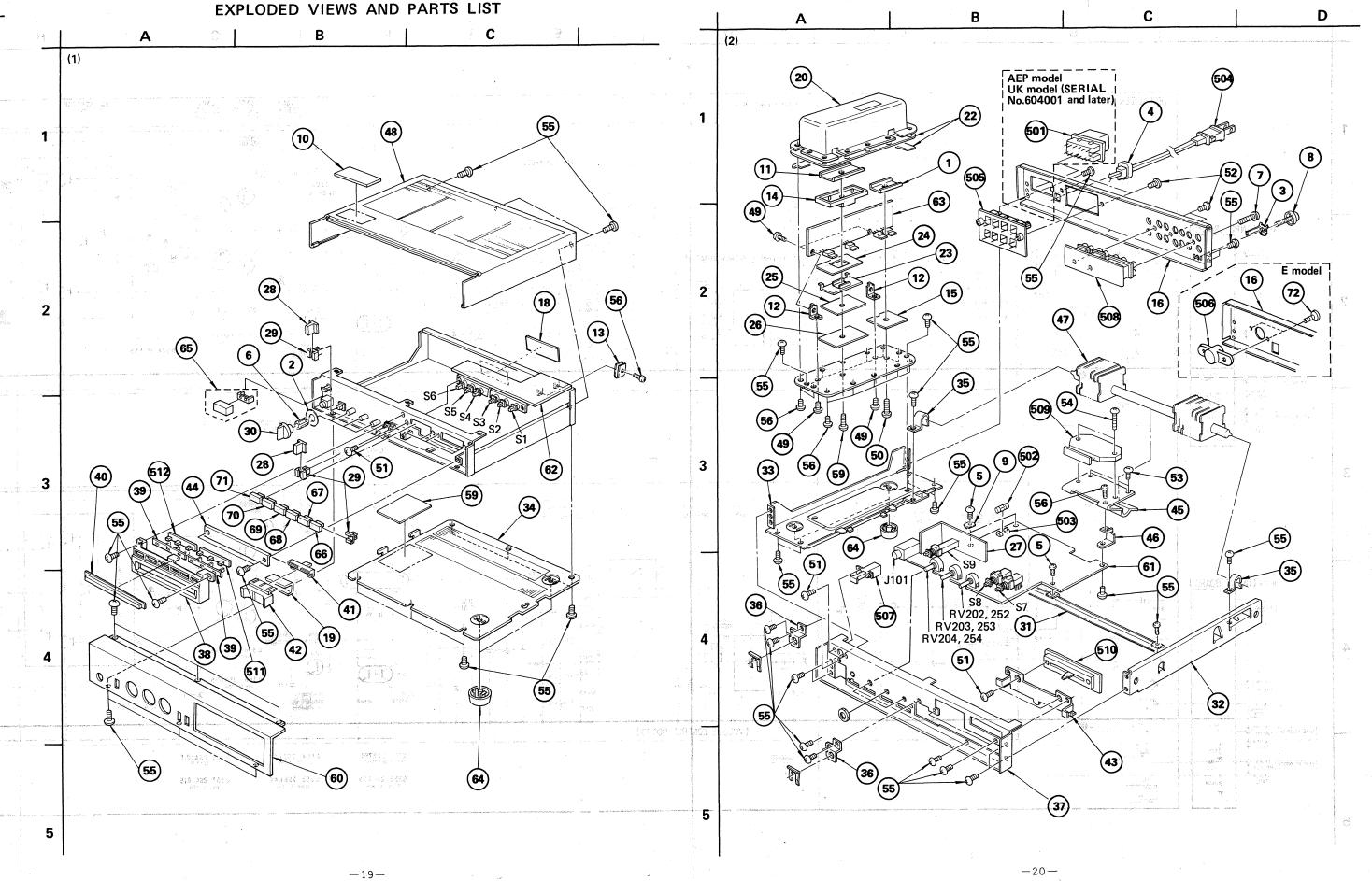
 $k\Omega$ : 1000  $\Omega$ ,  $M\Omega$ : 1000  $k\Omega$ 

• minimable resistor.

-: B+ bus.

• ---: B- bus.

SECTION 5



#### GENERAL SECTION

#### GENERAL SECTION TO LOS

No. Part No.	Description	No.	Part No. 19 no Description 1983 - 68 - 69
1 ;2-275-902-00 2 3-533-938-00 3 3-701-993-00 4 3-703-244-00 5 3-703-249-01	CLOTH SPACER, TERMINAL BUSHING, CORD	42 43 44	4-875-166-00 MOLD; CONTROL KNOB (098 4-875-167-00 KNOB; CONTROL KNOB (098 4-875-168-00 BRACKET; BACK PLATE (1988)
6 3-703-466-00 7 3-703-473-00 8 3-706-165-00 9 <b>4</b> ;4-835-639-00 10 4-861-045-00	SPRING (6600) SCREW, TERMINAL SCREW PLATE, GROUND LABEL, CAUTION	46 47 48 49 50	♣;4-875-170-00 BLOCK; POWER
11 •;4-862-237-00 12 •;4-863-510-00 13 •;4-866-080-00 14 •;4-866-315-00 4-869-232-00	RETAINER, TRANSISTOR 1908 Mg (5) SHEET, INSULATING	54	7-685-650-29, SCREW +BVTP-\33X16-TYPE2 SLIT - 7-685-871-01. SCREW +BVTT-33X6 -(\$)4
16 <b>4</b> ;4-875-101-00 16 <b>4</b> ;4-875-101-11 16 <b>4</b> ;4-875-102-00 16 <b>4</b> ;4-875-103-00	(UK,UP TO SERIAL NO.604,000)PLATE, JACK (UK,SERIAL NO.604001 AND LATER)PLATE, JACK (AEP)PLATE, JACK	56 K 57 58 59 60	7-685-872-01 SCREW +BVTT 3X8 (S) 7-685-873-01 SCREW +BVTT 3X10 (S) 9-911-840-XX SPACER (B), RUBBER GAMP 9-914-863-XX INSULATOR - 4-4-1 ACCORD
18	(AEP)LABEL, SPECIFICATION (UK)LABEL, SPECIFICATION (E1)LABEL, SPECIFICATION (E2)LABEL, SPECIFICATION (E2)LABEL, SPECIFICATION	61 61	*;A-4335-181-A-* ((AEP,UK)***MOUNTED PCB; AUDIO  *;A-4335-181-A-* ((E)
19 4-875-137-00 20 <b>4</b> ;4-875-139-00	MOLD (B), CONTROL KNOB	63	• A4-4388-090-A" (E) MOUNTED PCB, EQ
21 <b>\( \)</b> ;4-875-140-00 22	KNOB, F	64	X-3701-069-03 FOOT ASSY, M.F. X-4875-108-0 KNOB ASSY, POWER X-4875-116-0 KNOB ASSY, PHONO X-4875-117-0 KNOB ASSY, TUNER X-4875-118-0 KNOB ASSY, AUX X-4875-119-0 KNOB ASSY, TAPE (1) X-4875-120-0 KNOB ASSY, TAPE (2)
30 4-875-152-00	JOINT (F), KNOB KNOB, CONTROL	71 72	X-4875-121-0 KNOB ASSY, TAPE COPY 7-621-259-45 SCREW +P 2.6X6
32 <b>\\$</b> ;4-875-154-00 33 <b>\\$</b> ;4-875-155-00 34 <b>\\$</b> ;4-875-156-00	CHANNEL (B) PLATE, SIDE PLATE, SIDE, L PLATE, BOTTOM HOLDER, PIPE		
37 <b>4</b> ;4-875-160-00 38 4-875-163-00 39 <b>4</b> ;4-875-164-00	BRACKET, JACK PANEL (C), SUB ESCUTCHEON, CONTROL FRAME, LED WINDOW, F INDICATOR		

#### NOTE: Items with no part number and no description are not stocked because they are seldom required for routine service.

- Items marked are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part parwo! numbers  $(\Delta - \Delta\Delta\Delta - \Delta\Delta\Delta - XX \text{ or } \Delta - \Delta\Delta\Delta\Delta - \Delta\Delta\Delta - X)$ may be different from those used in the Hu : Hit , Am - HMM

## CAPACITORS:

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RESISTORS moses All nesistors are the ohms. (Common and the office of the common and the office of the ohm of the office of

• F : nonflammable.spms (from : 3

Items with no part number and no desand of pacitors were omitted a Refer to the seconds the condition are not strong and of the second because they following distantor their part numbers. Service they read for reading their part numbers. MF: pF, PF: Juni. Juni. MF: pF, PF: Juni. Juni. MF: pF, PF: Juni. Juni. MF: pF | cription are not stacked because they

ftees marked ' & ' are not stocked wince they are seldon received for routine service. Some delay should be anticipated wher ordering these items.

Due to standardization, parts with part numbers (A-AAT-AAA-2% or A-AAAA-3) may be different from those used in the

· MMH : mH, UH : µH

#### ACCESSORY & PACKING MATERIAL

#### No. Part No. Description 1-526-565-00 (E1). ADAPTOR, AC PLUG 3-701-630-00 BAG, POLYETHYLENE 3-783-514-11 MANUAL, INSTRUCTION 3-795-182-11 (AEP, UK)...INSTRUCTION (DUTCH, SWEDISH) 95 4-866-723-00 SHEET, POLYETHYLENE 96 4-875-444-00 (AEP) ... INDIVIDUAL CARTON (MADE IN KOREA) 4-875-445-00 (UK)....INDIVIDUAL CARTON 96 (MADE IN KOREA) 96 4-875-447-00 (AEP, UK, E) . INDIVIDUAL CARTON (MADE IN JAPAN) 4-875-448-00 CUSHION, UPPER 4-875-449-00 CUSHION, LOWER

6.1 - 26. 841 - 29.60 24-110 - 181 - 29.60 24-110 - 181 - 32. 1128-91 22-89145, 36.20

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5-005-995 7.1.105.05 1.1.147.1501

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#### ELECTRICAL PARTS (SAME AND ATTEMPTS)

	Ref.No.	Part No.	Descript	ion	, , , , , , , , , , , , , , , , , , ,		wani i	
VQ 4) 70	501 A	.1-526-636-13 .1-526-694-00	(AFP)	OU	TLET, AC TLET. AC	44		
1) ≠0	502 <u>∧</u> 502 <u>∧</u>	.1-532-286-00 .1-532-350-00	(AEP,UK) (E)	TII	ME-LAG F ME-LAG F	TUSE 2.5A TUSE; 4A		
)	503⊁∆	.1-533-131-00%	Liquis Oscilla william in a moral	THE REAL PROPERTY.	11- 63	- 3	riciyer Historia Northi	
)	504 A	.1-534-817-XX .1-551-473-31 .1-551-884-00	(AEP) (E) (UK)	COF	RD, POWE	R R R	Hedr Hwr	
	506 <u>A</u>	1-536-662-00 .1-552-963-00 .1-553-447-00	TERMINAL (E) SWITCH;	SW	ITCH, VO	R) LTAGE SE	LECTOR	
		1-604-865-00 ;1-605-981-00	(AEP,UK) (E)	PC	BOARD.	INPUT	1494 1646 Julius	
	1 -	1-604-866-00 ;1-605-982-00	(AEP,UK) (E)	PC	BOARD,	POWER	1875 3875	
		1-604-867-00 ;1-605-983-00	(AEP,UK) (E)	PC PC	BOARD, BOARD,	VOLUME VOLUME	3667 1696 365	
	511 ♣ 512 ♣	1-604-868-00 ;1-605-984-00 1-604-869-00 ;1-605-985-00	(AEP,UK) (E) (AEP,UK) (E)	PC PC	BOARD, BOARD,	DISPLAY	(A) (A) (B) (B)	
	- C416 ⊼. C417 Δ.	1-125-222-00 1-125-272-00 1-130-701-00 1-130-234-00	(AEP,UK). (E) (AEP,UK). (E)	ELECT FILM FILM	2-33	-560MF 0.47MF 0.047MF	20%	400V 200V 300V 300V
	C418 <u>不</u> C419 <u>A</u> C420 <u>A</u>	1-161-734-00 1-161-741-00 1-161-734-00 1-161-734-00 1-161-741-00	(E) (AEP,UK). (AEP,UK). (E)	CERAMI CERAMI CERAMI CERAMI	C	0:001MF 0:0022MF 0:0022MF 0:001MF	10% 120% 20% 10%	400V 400V 400V 400V 400V
	C422 <u>A</u> . C423 <u>A</u> . C901 <u>A</u> .	1-161-734-00 1-130-234-00 1-125-272-00 1-130-141-00 1-161-734-00	(AEP;UK). (E) (E) MYLAR CERAMIC	CERAMI FILM ELECT O.	01MF 0022MF	0.047MF 560MF 20%	20% 20% 630V 400V	400V 300V 200V
1	C904 <u>∧</u> C905 <u>∧</u> C906 <u>∧</u>	.1-161-734-00	CERAMIC ELECT: FILM: FILM	0. 10 11.0. 0.	0022MF )MF 22MF 22MF	20%	400V 400V 250V 250V	
	C909 ⚠. C910 ⚠. C911 ⚠	.1-123-361-00 .1-123-361-00 .1-123-361-00	MYLAR co ELECT : : ELECT : : : ELECT : : :	22 22 22	20MF 20 <b>MF</b> 20 <b>M</b> F	-101-6-	50V 50V 50V	
	-			10%6	30-593	J.1981-1	1015	

NOTE

1 WS(1 (2 (3) 1 WS(1 (2 (3) 3 W4(1 (3) (3)

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al WSA.

No Water 

> are seldom required for routine service when are following lists for their part numbers are seldom required for routine service when are following lists for their part numbers are seldom required for routine service when are following lists for their part numbers are seldom required for routine service when are following lists for their part numbers are seldom required for routine service when are seldom required for routi Items marked " • " are not stocked since they are seldom required for routine service. Some delay should be antici-

pated when ordering these items. Due to standardization, parts with partial ac numbers  $(\Delta - \Delta\Delta\Delta - \Delta\Delta\Delta - XX \text{ or } \Delta - \Delta\Delta\Delta\Delta - \Delta\Delta\Delta - X)$ may be different from those used in the eta - Will , Him :

CAPACITORS:

- /gratinagal) cription are not stocked because they and of apacitors are omitted. Refer to the eda since

RESISTORS

All resistors are in ohms. Common are omitted. Referrito the following as we wish a collection of the standard of the following as a second of the following as the standard of the following as a second of the following as a lists for their part numbers.

் F : nonflammable இருக

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

numbers (a-rad-abec xx or a-abec-are) with the control of the

· MMH : m.H, UH : µH

#### ELECTRICAL PARTS DWINDAR 3 1908231DA

Ref.No.	Part No.	<u>Description</u>	- <u>1981 (1981</u>	N. 1245	Ref.No.	Part No.	<u>Description</u>	nd his	. 2!
C914 <u>∧</u> C915 <u>∧</u> C916 <u>∧</u>	.1-130-141-00 .1-161-734-00 .1-161-734-00	MYLAR 0.0 MYLAR 0.0 (AEP.UK).CERAMIC (AEP.UK).CERAMIC	0.0022MF 0.0022MF 0.0022MF	630V 20% 400V 20% 400V	L351 ♣ L901 <u>/</u> L902 <u>/</u>	;1-420-872-00; ;1-421-340-00; ;1-421-329-00;	COIL, AIRE CORE COIL, AIRE CORE LINE FILTER! COIL, CHOKE	00-244-458-1 20-001-101-1 1-44-14-18-1 1-1881-19-1 00-801-468-1	19 10 44 10
CNJ102 CNJ103 CNJ151	1-507-741-21	JACK, PIN 6P; P	HONO; TUNER; A	UX Stell	11905 <u>/</u> 1906 <u>/</u>	. 1+421-329-00 .:1-421-329-00	COIL, CHOKE COIL, CHOKE COIL, CHOKE	30-312-313-3 30-311-313-3	Ž3 vo
CNJ154	13809 (08 38699 (08 1-507-740-00	( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	APE RECORDER 1	/2 - 30- 30- 30-	Q301 Q302 Q303 Q304 Q305		TRANSISTOR 2SA79 TRANSISTOR 2SC22 TRANSISTOR 2SB64 TRANSISTOR 2SD66 TRANSISTOR 2SA10	291-G 164A: 488-114-8 664A: 488-113-1	, ¢
D001 D002 D003 D004	8-719-912-55 8-719-912-55 8-719-912-55 8-719-912-55	DIODE SLP255B DIODE SLP255B DIODE SLP255B DIODE SLP255B	#8、98数28882 [13] 301-448、848、13 40 - (19 - 393) - 1。ま 40 - (19 - 393) - 1。ま	20 20 20 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q306 Q307 Q308 Q351 Q352	8-729-663-47 8-729-663-47 8-729-201-52 8-729-679-82 8-729-629-12	TRANSISTOR 2SC13 TRANSISTOR 2SC13 TRANSISTOR 2SA10 TRANSISTOR 2SA79 TRANSISTOR 2SC22	364 )15-GR <del>3</del> 8-G	
	8-719-921-55 8-719-144-07 8-719-815-55 8-719-910-63	DIODE SLP155B DIODE RD2.4E-B DIODE 1S1555 DIODE HZ6A3L	10 de la Persona de la Section	0 (A)	Q353 Q354 Q355 Q356 Q357	8-729-304-62 8-729-300-62 8-729-201-52 8-729-663-47 8-729-663-47	TRANSISTOR 2SB64 TRANSISTOR 2SD66 TRANSISTOR 2SA10 TRANSISTOR 2SC13 TRANSISTOR 2SC13	56-A 015-GR 864	
D304 D305 D306 D351	8-719-815-55	DIODE 1S1555 DIODE 1T22AM DIODE 1S1555 DIODE 1S1555	\$  00  04   10 \$  00  00 \$  00  00 \$  00  00 \$  00  00 \$  00  00	(2660) (2660) (2660)	Q358 Q401 Q402 Q403 Q404	8-729-201-52 8-729-180-93 8-729-173-13 8-729-663-47 8-729-201-52	TRANSISTOR 2SA10 TRANSISTOR 2SD80 TRANSISTOR 2SB70 TRANSISTOR 2SC10 TRANSISTOR 2SA10	09-K 31-K 364	
D354 D355 D356 D401 D402	8-719-815-55 8-719-910-63 8-719-815-55	DIODE 1S1555 DIODE 1T22AM DIODE 1S1555 DIODE HZ6A3L DIODE 1S1555	40 - 120-224-006 20 1-231-732-00 20 1-231-734-006 20 1-231-734-756	( VIA) ( VIA) ( VIA) ( VIA) ( VIA)	Q902 <u>A</u> Q903 <u>A</u>	8-729-224-61 8-729-224-61 \$8-729-612-77 \$8-726-663-47 \$\times \times \ti	TRANSISTOR 2SK24 TRANSISTOR 2SK24 TRANSISTOR 2SA14 TRANSISTOR 2SC1 TRANSISTOR ASSY TRANSISTOR ASSY	16-Y 127R 364 , SERVICE 28C2	2767
D403 D404 <u>A</u> D405 <u>A</u> D406 <u>A</u>	.8-719-230-24 .8-719-230-24 .8-719-230-24 .8-719-230-24	DIODE RD27E-B3Z DIODE 30DL4FA DIODE 30DL4FA DIODE 30DL4FA DIODE 30DL4FA	00 - 191 - 191 - 194 - 195 10 - 195 - 195 - 195	2000 2000 2000 2000	R007 <u>A</u> R313 <u>A</u> R314 <u>A</u>	\$\\ \begin{align*} \lambda 1-205-599-00 \\ \lambda 1-206-668-00 \\ \lambda 1-247-107-00 \\ \lambda 1-247-107-00 \\ \lambda 1-247-107-00 \end{align*}	METAL 1. CARBON 10 CARBON 10	.5K 5% 2W OO 5% 1/4 OO 5% 1/4	F IW F IW F
D901 <u>A</u> D902 <u>A</u> D903 <u>A</u>	.8-719-815-55 .8-719-815-55 .8-719-300-22	DIODE 181555	1.1.1.51 - 734 - 90 1.1.1.51 - 734 - 90 2.1.1.53 - 730 - 90	1007 4020	R363 <u>A</u> R364 <u>A</u> R365 <u>A</u>	1-217-152-00 1-247-192-00 1-247-107-00 1-247-107-00 1-247-107-00	CARBON 10 CARBON 10 CARBON 10 CARBON 10	0 5% 1/2 00 5% 1/4 00 5% 1/4 00 5% 1/4	2W F 1W F 1W F 1W F
IC101 IC151 IC201 IC301	8-759-305-50 8-759-305-50 8-759-745-60 8-759-822-30	IC CX-550 IC CX-550 IC NJM4560D IC STK-2230ST IC HA12002			R406 Z R407 Z R414	\$\frac{1-247-192-00}{1-212-857-00}\$\frac{1-212-857-00}{1-206-670-00}\$	FUSIBLE I FUSIBLE 1 METAL 1	0 5% 1/6 0 5% 1/4 0 5% 1/4 0 8K 5% 2W	
J101	1-507-669-00			į.			(E)CARBON (E)CARBON	220K 5% 220K 5%	1/4W 1/4W

400). Voer Vd02

VOUR-

- · Items with no part number and no des-
- Items marked " are not stocked since they are seldom required for routine service. Some delay should be antici-pated when ordering these items.
- · Due to standardization, parts with parts numbers  $(\Delta - \Delta\Delta\Delta - \Delta\Delta\Delta - XX \text{ or } \Delta - \Delta\Delta\Delta\Delta - \Delta\Delta\Delta - X)$ may be different from those used in the 本。 相 . Ho : 科性

#### CAPACITORS:

resemble All capacitors tares on uff. A Common ca- -206 o Books Stoce

#### RESISTORS

- Alloresistors are in ohms. Common and 1/16W carbon resistors are omitted. Refer to the following of the walled .coidesibsoches of and addists for their part numbers.
  - F : nonflammable (decom )

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

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#### ELECTRICAL PARTS A 18

Ref.No. Part No. 19 mar Description 2001 Office and an additional and additional additional and additional addit		3
R902 A. 1-246-483-00% CARBON Set 2.7K 5% 1/4W 1841-1943 F 1842 R903 Ac 1-246-483-00% CARBON Set 2.7K 5% 1/4W 1841-1943 F 1842 R904 A. 1-246-467-00% CARBON Set 3.27K 15% 1/4W 1841-1943 F 1842 R905 A. 1-246-469-00% CARBON Set 3.27K 15% 1/4W 1841-1943 F 1842 R905 A. 1-246-469-00% CARBON Set 3.28 680 8.5% 1/4W 1842-1943 F 1842-1943	1 (2.00 N. 900 L00 2 34528-838-00 3 1700 L944-150 2 1703 L046-00 3 1703 L046-00	
R7906 A.1-244-822-00 CARBON 7.5 5% 1/2W 10-00	1 25 203 4 66 00 1 5 20 20 20 20 20 20 20 20 20 20 20 20 20	
RV201 1-228-249-00 RES, VAR; SLIDE 250K; VOLUME RV202 1-228-245-00 RES, VAR, CARBON 250K/250K; BALANCE RV203 1-228-247-00 RES, VAR, CARBON 50K/50K; TREBLE RV204 1-228-248-000 RES, VAR; CARBON 50K/50K; BASS RV251 (1-228-249-000 RES, VAR; CARBON 50K/50K; VOLUME 2 CORT 10K 000 RES, VAR; CARBON 50K/50K; VOLUME 3 CORT 10K 000 RES, VAR; CARBON 50K 000 RES, VAR; CARBON 50K/50K; VOLUME	00-109-089-4; & 00-109-089-4; & 00-080-488-488-488-488-488-488-488-488-4	
24-49-0-19-0-2-3-4-0-2-0-0-2-4-0-0-2-4-4-4-4-4-4-4-4-4-4	# 44-8-10-6-00	
S1 1-553-721-00 SWITCH, PUSH; PHONO S2 1-553-721-00 SWITCH, PUSH; TUNER S3 1-553-721-00 SWITCH, PUSH; AUX, 10 S4 1-553-722-00 SWITCH, PUSH; TAPE110 S5 1-553-722-00 SWITCH, PUSH; TAPE110 S5 1-553-722-00 SWITCH, PUSH; TAPE2		
33 S6% 0314553-722400 SWITCH; PUSH; TAPE COPY 1-2 #0274 70 1384 (1344) 1 (11) 33 S7 S S S S S S S S S S S S S S S S S	11 (5) 1048 8 08 P 1804 12 (5) P 7 - 5 P 1904 12 (5) P 8 - 5 P	2 () 2 () 3 ()
T901 A.1-543-100-00 CORE T902 A.1-543-100-00 CORE T903 A.1-446-964-00 TRANSFORMER, CONVERTER  T903 A.1-446-964-00 TRANSFORMER, CONVERTER  T904 7824 4038 7-343-3438  T905 7824 4038 7-343-3438  T905 7824 4038 7-343-3438  T906 7824 4038 7-343-3438  T907 7824 4038 7-343-3438  T907 7824 4038 7-343-3438	000-02-0-000-2, & 1 	3 S 2 S 3 S
and the second of the second o	10-30-30-30-30-30-30-30-30-30-30-30-30-30	- 0 8 9 3 9
9167, 518 PLAN, 31M PLAN, morrow	00-88(-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8	ri 19 as

- · Items with no part number and no description are not stocked because they
- · Items marked " ♣ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · Due to standardization, parts with part numbers ( $\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX$  or  $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-XX$ ) may be different from those used in the

#### CAPACITORS:

All capacitors are in u.F. Common capacitors are omitted. Refer to the are seldom required for routine service. 279 doubt. Following Pists for their part numbers. 22 (236)

MF: μF, PF: μμF. 693 44 (3.244) Societa Di

CAPACITORS:

## RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

• F : nonflammable

The components identified by shading and mark A are critical for safety. Replace only with part number specified

Noe is standardization, parts With per numbers IA-AAS-AAC-AX or A-AAAA-AAAA may be different Twom EAGSE **ZIIOO** (A th

· MMH : mH, UH : բH

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GUMERAL SECTION

#### ELECTROLYTIC CAPACITORS

			RATING		→: Use the high vol	age rated one.
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
CAP. (µF)	PART No.	PART No.				
0.47						1-121-726-00
1.0		-			→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	-	→	1-121-392-00	→	1-121-393-00
4.7	→	→	<b>→</b>	1-121-395-00		1-121-396-00
10	<b>→</b>	<b>→</b>	1-121-651-00	1-121-398-00	-	1-121-738-00
22	-		1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	<b>→</b>	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	<b>→</b>	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	<b>→</b>	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	_	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	
3300	1-121-661-00	1-123-075-00	1-123-071-00	_	-	-

040 ( 5)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
CAP. (µF)	PART No.	PART No.	PART No.	PART No.
0.47	-	-		-
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	_	1-123-028-00
3.3	1-121-995-00	-	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	-	-
47	1-123-251-00	1-121-919-00	_	-
100	1-123-084-00	-	-	-

#### CERAMIC CAPACITORS

	RATING								
	50 VOLT.	/ ->	50 VOLT.	040 (.5)	50 VOLT.	CAP. (μF)	50 VOLT.		
CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAP. (pF)	PART No.	CAI. (μΙ )	PART No.		
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-0		
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-0		
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-0		
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-0		
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-0		
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-0		
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-0		
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-0		
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-0		
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-0		
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-0		
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-0		
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-0		
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-0		
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-0		
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00				
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		1		
16	1-102-952-00	110 -	1-1-02-815-00						
18	1-102-953-00	120	1-102-816-00	1					
20	1-102-958-00	130	1-101-081-00	1					

#### CERAMIC (SEMICONDUCTOR) CAPACITORS

		R/	ATING -	: Use the high vol	tage rated one.
	25 VOLT.	25 VOLT. 50 VOLT.		25 VOLT.	50 VOLT.
CAP. (µF)	PART No.	PART No.	CAP. (µF)	PART No.	PART No.
0.001	>	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-0
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-0
0.0027	<b>→</b>	1-161-044-00	0.047	1-161-021-00	1-161-059-0
0.0033	. → .	1-161-045-00	0.056	→	1-161-060-0
0.0039	<b> →</b>	1-161-046-00	0.068	→	1-161-061-0
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-0
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-0
0.0068		1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00	naisa	hograD v	1002

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ruger (9)

9-960-627-11

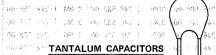
#### MYLAR CAPACITORS

I 4 VATT CARBON RESISTORS

			yst S	The second	. 5	RATING		7		M	1.5	<u> </u>	
Season to a second	50 VOLT.	100 VOLT.	200 VOLT.		50 VOLT.	100 VOLT.	200 VOL	т.	045 ( 5)	50 VOLT.	100 VOLT.	200 VOLT.	
CAP. (µF)	PART No.	PART No.	PART No.	CAP. (µF)	PART No.	PART No.	PART N	<b>).</b>	CAP. (µF)	PART No.	PART No.	PART No.	
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421	-00	0.1	1-108-251-00	1-108-389-00	1-108-433-0	
0.0012		1-108-366-00			1-108-357-00	1-108-378-00	1-108-422	-00	0.12	1-108-363-00	1-108-390-00	1-108-434-0	
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423	-00	0.15	1-108-252-00	1-108-391-00	1-108-435-0	
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424	-00	0.18	1-108-364-00	1-108-392-00	1-108-436-0	
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425	-00	0.22	1-108-254-00	1-108-393-00	1-108-437-0	
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426	-00	0.27	1-108-854-00	.a a.	au auc aus	
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427	-00	0.33	1-108-855-00	- 71	AND MALE ON .	
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428	-00	0.39	1-108-856-00	#\$ . ⊶ 81	00 104 560	
0.0047	1+108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429	-00	0.47	1-108-857-00	ge . = 90	89 NT 145	
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### TANTALUM CAPACITORS

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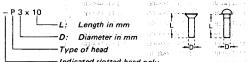
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		arrets reed that	1 mm 1	<u> </u>		President to the authors with the same to	i i	71

#### 1/4 WATT CARBON RESISTORS

MYLAR CARACITORS

.Ω	Part No.	Ω,	Part No.	Ω.,	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω.	Part No.
1.0	1-246-401-00	10,	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-0
1.1	1-246-402-00	.11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-0
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-0
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-0
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-0
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-0
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-0
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-0
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-0
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-0
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-0
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-0
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-0
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-0
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-0
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-0
1.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-0
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	-510k	1-246-538-00	5.1M	1-244-762-0
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
5.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
5.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

#### HARDWARE NOMENCLATURE



- Indicated slotted-head only. Unless otherwise indicated, it means cross-recessed head (Phillips type).

Reference Designation	Shape	Description	Remarks		
	1	SCREWS			
Р	₽	pan-head screw	binding-head (B) screw for replacement		
PWH	€	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement		
PS PSP #33		pan-head screw with spring washer;	binding-head (B) screw and spring washer for replace- ment		
PSW PSPW <del>開</del>		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement		
R	€3	round-head screw-	binding-head (B) screw for a replacement		
К	₽	flat-countersunk-head screw strategy to the	185- 07- (20-) 08-08-(20-) 18-08-(20-)		
RK	₽:	oval-countersunk-head screw	48000 ( + + 1 + 1		
В	₽	binding-head screw	OBSTANTA SERVICE		
Т	₽	truss-head screw	binding-head (B) screw for replacement		
F	₽:3	flat-fillister-head screw			
RF	€⊒-	fillister-head screw	1		
BV	<del>(</del>	braizer-head screw	The state of the s		

Nut, Washer,	Retaining	ring
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Reference Designation	Shape	Description	Remarks **		
		SELF-TAPPING SCRE	WS. Charles Tools		
TA	(1)	self-tapping screw	ex: TA, P3 x 10		
PTP	<b>(EEE)</b>	pan-head self-tapping screwggottoARAO MU	binding-head self- tapping (TA, B) screw for replacement		
RTPWH,	<b>H</b>	pan-head self-tapping screw with washer-face	binding-head self tapping (TA, B) screw and flat washer for replacement		
PTTWH₩		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement		
		SET SCREWS	716.0		
sc	-€	set screw	869 ( )		
sc	-⊛€:⊒	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket		
		NUT	- EB		
N	-[]-🐵-	nut	884.		
64.600	41	WASHERS	. 94		
w	0	flat washer			
SW 00.331	<b>-⊚ (</b> -	spring washer	\$ T		
LW manager	0	internal-tooth lock washer	ex: LW3, internal		
L <b>W</b> 50-130-	0	external-tooth lock washer	ex: LW3, external		
WEFT I	\$8.6.f	RETAINING RINGS	ar interest of		
. E .	6	retaining ring	REGER OF LOTTE		
G	୍ଷ	grip-type retaining ring	The state of the same become any content of		

#### SUSCIPLIANTE CAPACITORS

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#### CEPAMIC CAPACITORS

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#### CERAMIC ISEMICONDUCTOR: CAPACITORS

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